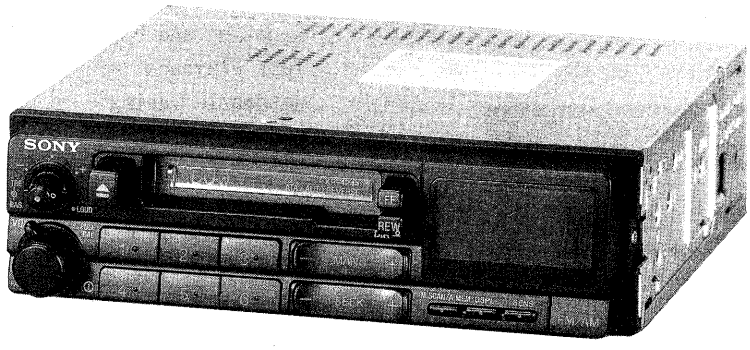
XR-4244

SERVICE MANUAL

Saudi Arabia Model



Model Name Using Similar Mechanism	XR4240
Tape Transport Mechanism Type	MG-707V-35

SPECIFICATIONS

Power amplifier section

Outputs: Speaker outputs (sure seal connectors)
Speaker impedance: 4 – 8 ohms
Maximum power output:
25 W × 2 (at 4 ohms)*
15 W × 4 (at 4 ohms)*
*Measured at 14.4 V

Cassette player section

Tape track: 4-track 2-channel stereo
Frequency response: 30 – 16,000 Hz
Signal-to-noise ratio: 55 dB
Wow and flutter: 0.13% (WRMS)

Tuner section

System: Superheterodyne tuner
Computerized quartz-locked synthesizer system
Antenna terminal: External antenna connector

FM

Tuning range: 87.5 – 108.0 MHz
Intermediate frequency: 10.7 MHz
Usable sensitivity: 15 dBf (75 ohms)
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 66 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz: 0.9% (stereo), 0.5% (mono)
Separation: 35 dB at 1 kHz
Frequency response: 30 – 15,000 Hz
Capture ratio: 2 dB

SW

Tuning range:
SW1: 2.94 – 7.735 MHz
SW2: 9.50 – 18.135 MHz
(except for 10.135 – 11.580 MHz)
Intermediate frequency: 10.7 MHz/450 kHz
Sensitivity:
SW1: 40μV
SW2: 40μV

MW

Tuning range:
531 – 1,602 kHz (at 9 kHz step)
530 – 1,620 kHz (at 10 kHz step)
MW tuning interval 9kHz/10kHz switchable
Intermediate frequency: 10.7 MHz/450 kHz
Sensitivity: 35μV

General

Tone controls: Bass ±8 dB at 100 Hz
Treble ±8 dB at 10 kHz
Loudness: +10 dB at 100 Hz
+6 dB at 10 kHz
Output lead: Power antenna relay control lead
Power requirements: 12 V DC car battery (negative ground)
Dimensions: Approx. 178 × 50 × 154 mm (w/h/d)
not incl. projecting parts and controls

FM/MW/SW CASSETTE CAR STEREO

SONY®

Mounting dimensions
Approx. 178 × 50 × 137 mm (w/h/d) not incl. projecting parts and controls
Weight Approx. 1.3 kg
Accessories supplied
Mounting hardware (1 set)

Design and specifications subject to change without notice.

Features

Tuner section
- **SSIR (Sony Super Interference Rejection) PLL synthesizer tuner** for precise tuning.
- **Memory preset tuning** allows you to store the FM band (18 stations), MW band (6 stations) and SW band (12 stations) in memory.
- **The ATA (Automatic Tuner Activation) function** automatically turns on the tuner while fast-winding a tape.

Cassette deck section
The auto-reverse function changes the tape direction automatically.

General
Quartz controlled digital clock.

WARNING !!

ADVARSEL!
Lithiumbatteri – Eksplosionsfare
Udskiftning må kun foretages af en sagkyndig, og som beskrevet i servicemanualen.

LITHIUM BATTERY
SHOULD ONLY BE CHANGED BY TECHNICAL PERSONNEL. THERE IS A RISK FOR EXPLOSION AT A WRONG HANDLING.

"Batteriet må kun udskiftes med et batteri af samme fabrikat og type".

Because of the risk for explosion the battery must be replaced with the same type and manufacture.

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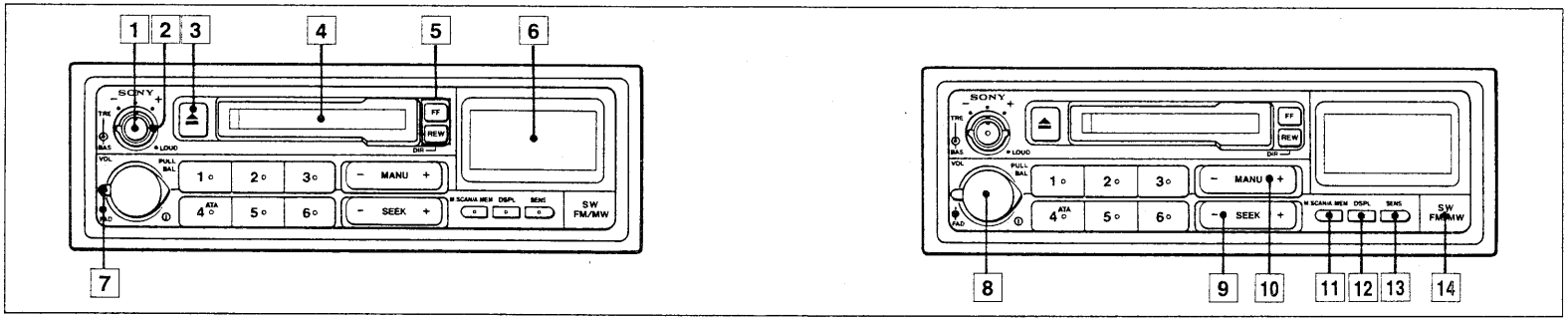
Location and Function of Controls



Refer to the pages in ● for details.

1 LOUD (loudness) button/TRE (treble) control

LOUD button	Press to reinforce bass and treble especially when listening at low level. To disengage the button, press again.
TRE control	Turn clockwise to increase and counterclockwise to decrease the treble.

2 BAS (bass) control
Turn clockwise to increase and counterclockwise to decrease the bass.

3 ⏏ (eject) button
Press to stop tape playback and eject the cassette.

4 Cassette insertion door

5 FF/REW (fast winding) buttons/DIR (tape transport direction change) buttons ❽
During playback, depress FF or REW for fast winding, or press both FF and REW simultaneously to listen to the other side of the cassette.

6 Display window

7 FAD (fader) control ❽
Turn clockwise to decrease the volume of the rear speakers or counterclockwise to decrease the volume of the front speakers.

8 Power on • off switch/VOL (volume) control/PULL BAL (balance) control

Power on • off switch	Press to turn on and off the unit.
VOL control	Turn clockwise to increase and counterclockwise to decrease the volume.
PULL BAL control	While pulling the control knob, turn to adjust the balance of the left and right channel outputs.

9 SEEK −/+ button ❾ ⓬
Press − side to search stations in lower frequencies and + side to search in higher frequencies.

10 MANU (manual) −/+ button ⓫ ⓬
Press to tune in the desired stations manually.

11 M.SCAN (memory scan)/A.MEM (automatic memory) button ⓭

Function	Operation
M.SCAN	Press for a moment to scan the preset stations automatically.
A.MEM	Press for more than two seconds to memorize the stations automatically.

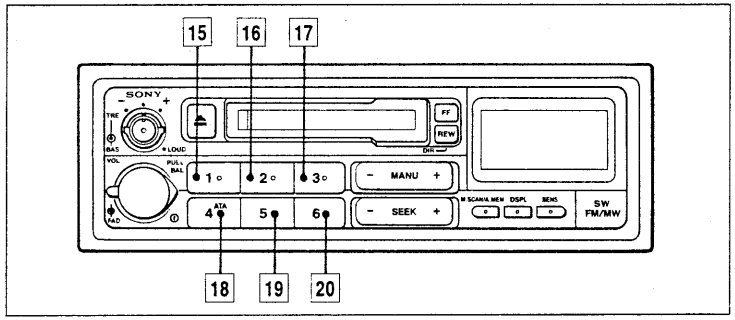
12 DSPL (display) button ⓮
Press to display the time digits (clock). Press again to go back to the normal mode.

13 SENS (sensitivity) button ⓯

14 SW/FM/MW band select button ❾ ⓫ ⓭

This section is extracted from instruction manual.

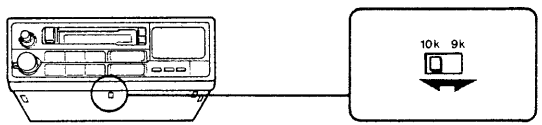
Location and Function of Controls



	During tape playback	During radio operation
15	—	Preset number buttons ⓬ ⓭
16	—	
17	—	
18	ATA (Automatic Tuner Activation) button ⓼	
19	—	
20	—	

To change the MW tuning interval

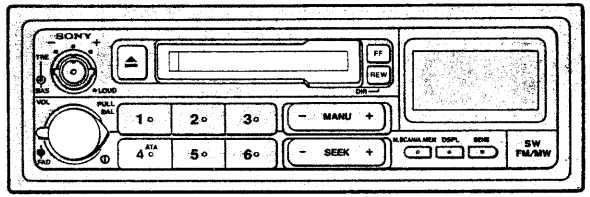
The tuning interval selector is set to 9 k at the factory. If you use the unit where the frequency allocation is based on another tuning interval, change the interval before making connections using the tuning interval selector on the bottom.



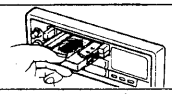
Change the position with a ball-point pen or similar objects.

Cassette deck operation

Tape Playback



1 **Press to turn on the unit.**

2  **Insert a cassette.**
Playback starts automatically.

3 **Adjust the volume.**

Before turning off the unit:
Be sure to eject the tape to avoid tape damage.

Side of the cassette being played back or fast-wound

Indicator	
▶	The side facing upward
◀	The side facing downward

Tape Playback

Other Operations

To listen to the other side of the cassette	Press FF REW (simultaneously).
To wind the tape rapidly	To advance the tape — Depress FF. To rewind the tape — Depress REW. To resume playback, press FF or REW lightly so as not to depress it.
To stop playback and listen to the radio	Press ⏏. The unit enters the radio mode.
To stop playback and turn off the unit	Press ⏏ and then ⏻.

To Turn on the Radio Automatically While Fast-winding the Tape (ATA function)

Press 4 ATA.

The tuner turns on automatically when you press the FF or REW button during tape playback. When you resume the tape playback, the tuner turns off automatically.

Note

None of the preset buttons will function while the ATA function is in operation. However, other tuner operation buttons will function normally.

To control the balance of the front and rear speakers in a 4 speaker system

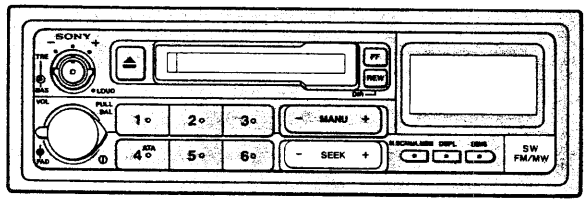
Use the FAD control.
Turn clockwise to decrease the volume of the rear speakers.
Turn counterclockwise to decrease the volume of the front speakers.

To control the balance of the right and left speakers

Use the PULL BAL control.
Pull out the control and turn clockwise to decrease the volume of the left speaker(s), and turn counterclockwise to decrease the volume of the right speaker(s).

Radio reception

Automatic Tuning



1

Press to turn on the unit.

2 SW FM/MW

Press to select the desired band, FM I, FM II, FM III, MW, SW I or SW II.*

3 − SEEK +

Press to start scanning.

−: For lower frequency stations

+: For higher frequency stations

The scanning automatically stops when a station is tuned in.

Repeat this step until the desired station is tuned in.

4

Adjust the volume.

* SW meter band

	Meter band	Frequency range
SW 1	90 m	3.2 – 3.4 MHz
	75 m	3.95– 4 MHz
	60 m	4.75– 5.06 MHz
	49 m	5.95– 6.2 MHz
	41 m	7.1 – 7.3 MHz
SW 2	31 m	9.5 – 9.775 MHz
	25 m	11.7– 11.975 MHz
	19 m	15.1– 15.45 MHz

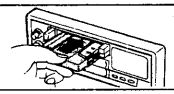
When you select the SW II band

After 10.135 MHz. the scanning stops at 11.580 MHz.

Automatic Tuning

Other Operations

To stop the radio and start tape playback



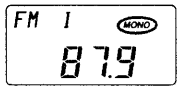
To stop the radio and turn off the unit

Press

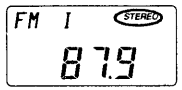
When the FM stereo program is too weak and noisy

Press SENS* twice.

The noise will be reduced. The sound will be monaural instead.



When an FM stereo program of sufficient signal strength is tuned in



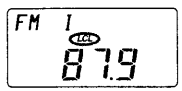
The program is automatically received in stereo.

*Each press on the button changes the mode cyclically as LCL (local) ➡ MONO ➡ normal ... .

When there are too many stations and the scanning stops too frequently during automatic tuning

Press SENS* once.

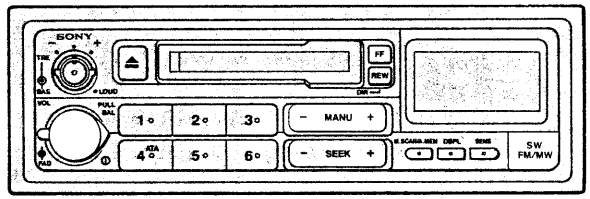
Only the stations with relatively strong signals can be tuned in.



During a normal reception, the sensitivity of reception for the SW I and SW II bands are switchable. The FM and MW bands are in automatically received in the DX mode even when the LCL indication is flashing. However, during the first scanning, they are received in the LOCAL mode.

Manual Tuning

Use this method when you know the frequency of the desired station, or when the desired station is too weak to be tuned in by the automatic tuning.



1

Press to turn on the unit.

2

Press to select the desired band, FM I, FM II, FM III, MW, SW I or SW II.

3

Press to select the desired station.

–: For lower frequency stations

+: For higher frequency stations

To change the frequency rapidly, keep the button pressed.

4

Adjust the volume.

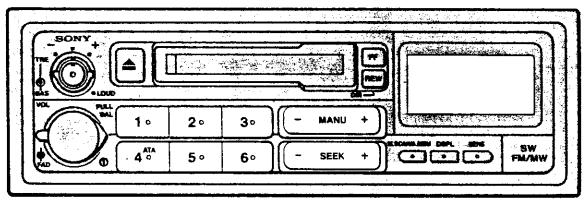
Warning

While driving, keep your eyes on the road and use the automatic tuning or memory preset tuning!

Memory Preset Tuning

To Memorize the Stations

The unit can memorize up to 18 stations on the FM band (6 stations each on FM I, FM II, and FM III), 6 stations on the MW band and 12 stations on the SW band (6 stations each on SW I, SW II).



1

- SEEK +

or

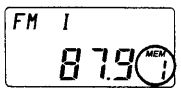
- MANU +

Tune in a desired station
using the automatic or manual tuning.

2

1 ◦ — 6 ◦

Keep the desired preset button pressed
while the sound is being muted.



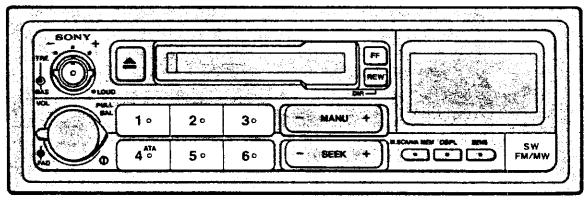
The station is memorized.

Repeat these steps for each preset button.

Important

Every preset button has only one memory for a band. The previously memorized station will be erased when you enter a new station of the same band on the same preset button.

To Receive the Preset Station



1

SW FM/MW

Press to select the desired band.

2

1 ◦ — 6 ◦

Press the desired preset button lightly.

To memorize the stations automatically

Press the M.SCAN/A.MEM button for more than two seconds. The unit scans for the stations, and memorize them on the preset number in order of frequency and of the preset number. (Scanning starts from the frequency indicated on the display window.)

Press the SW/FM/MW button again to select FM I, FM II, FM III, MW, SW I or SW II and repeat the procedure again.

If a station is received when you start to memorize

The station will be memorized on the preset number 1.

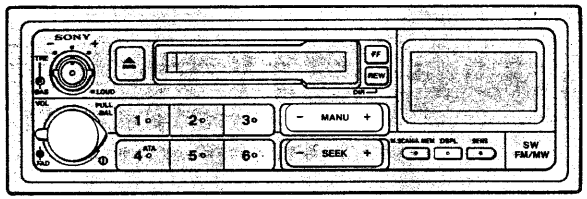
When any other preset number is indicated on the display window

The stations will be memorized on the next preset number to the preset number 6.

To survey what is being broadcasted on the preset stations

Press the M.SCAN/A.MEM button. Each memorized station will be scanned for a few seconds. To stop scanning, press the M.SCAN/A.MEM button again at the desired program.

Setting the Clock



1

Press to turn on the unit.

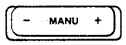
2

DSPL

Press once to display the time digits.

3

DSPL



Press to set the time digits while pressing the DSPL button.

–: To advance the **hour** digits

+: To advance the **minute** digits

To advance the digits rapidly, keep the button pressed.

When to set minute digits

- Minute and hour digits do not go backward.
- "00" comes after "59". The hour digits do not change then.

SECTION 2
ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENT

No mechanical adjustments applied to this unit.

● Torque Measurement

Mode	Torque Meter	Torque
FWD	CQ-102C	35 to 65 g · cm (0.49 to 0.90 oz · inch)
REV	CQ-102RB	
FF	CQ-201B	70 to 160 g · cm (0.98 to 2.22 oz · inch)
REW		

2-2. ELECTRICAL ADJUSTMENTS

Note : The adjustment should be performed in the order given in this service manual.
The adjustments should be performed for both L-CH and R-CH.

- Power-supply voltage is +14.4V DC as per Ad Hoc recommendation.
- Switches and controls should be set as follows unless otherwise specified.
  PULL BALANCE control : center click

SERVICE MODE (service program)

This set has built-in service program in the microcomputer.

SERVICE MODE setting method

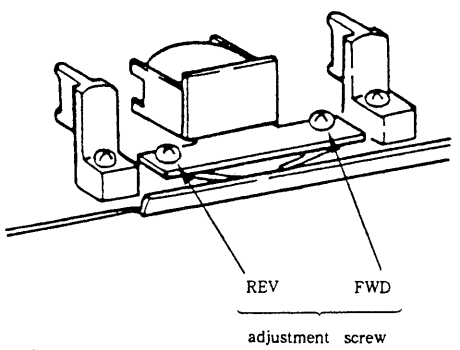
1. Supply the external power.
2. Press the power switch to turn on the unit.
3. While pressing number buttons ① ③ ④ simultaneously, press the power switch to turn off and then to turn on.
4. Press the ① ③ button at the same ,make sure that the indicating of internal LCD light all.

SERVICE MODE release

Press the power switch to turn off the unit.

TAPE SECTION

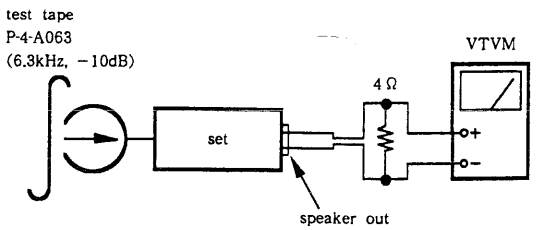
Adjustment Location :



Playback Head Azimuth Adjustment

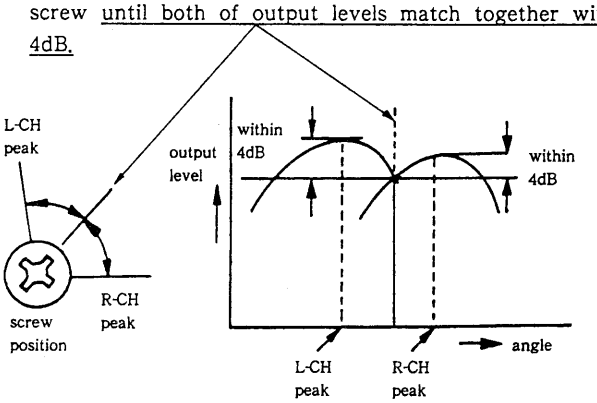
Procedure :

1. Mode : playback

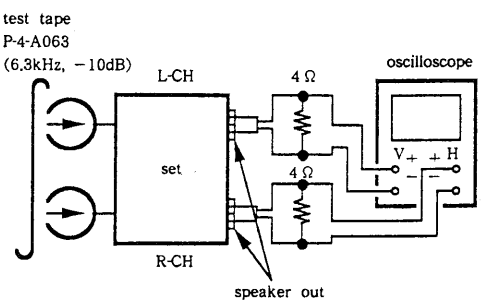


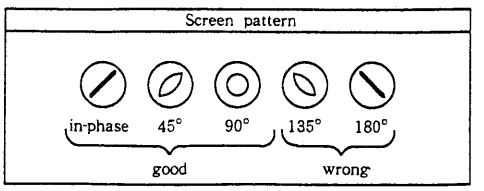
Adjust for forward (▶) direction and reverse (◀) direction.

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 4dB.



3. Phase Check
   Confirm that phase difference between L-channel and R-channel is within 90° .



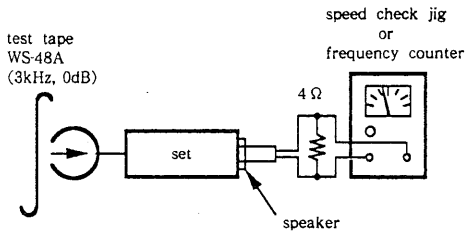


4. Repeat the above adjustment for reverse playback mode.
5. After the adjustment, lock the screw with locking compound.

Capstan Motor Tape Speed Adjustment

Procedure :

1. Put the set into the FWD PB mode.

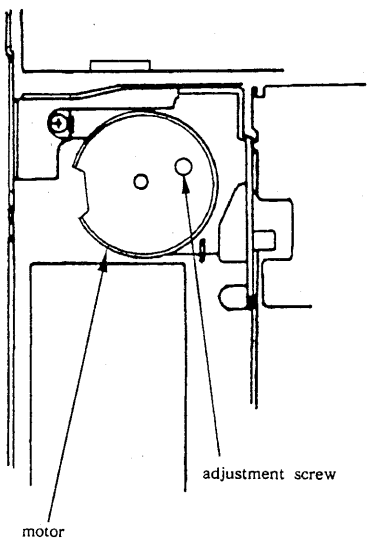


Specification : Constant speed

Speed check jig	Frequency counter
−2 to +3%	2,940 to 3,090 Hz

Adjust so that the frequency difference between the FWD and REV modes is within 1.5%.

Adjustment Location :



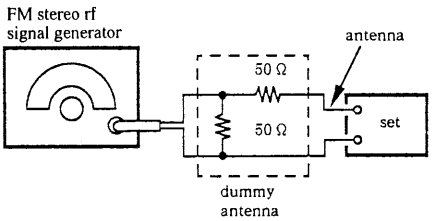
FM SECTION

FM IF Adjustment

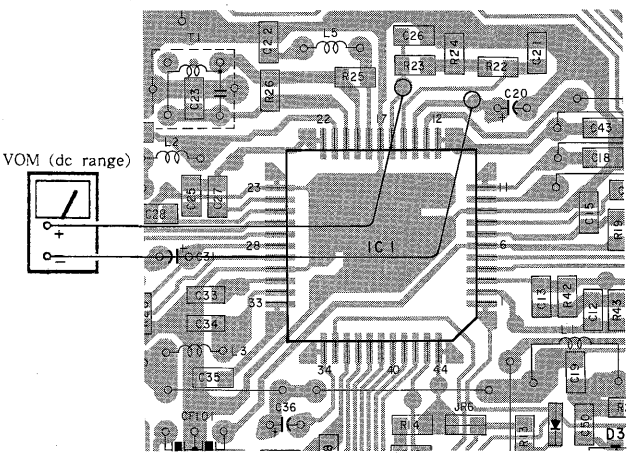
Setting:

BAND: FM Stereo

Frequency: 98.0MHz



Carrier frequency: 98.0MHz
Modulation : 1kHz, 75kHz
Output level : 60dB (1mV)



Procedure:

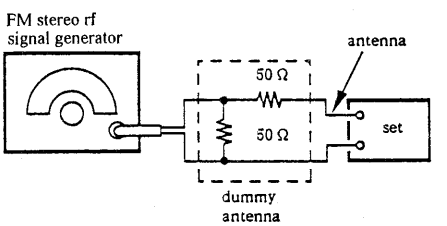
1. Tune the set to 98MHz.
2. Adjust T1 for 0V ± 20mV reading on the VOM.

FM Seek Stop Level Adjustment (SD Adjustment)

Setting:

BAND: FM Stereo

Frequency: 98MHz



Carrier frequency: 98MHz
Modulation: 1kHz,75kHz
Output level: 25dB (17.8uV)

Procedure:

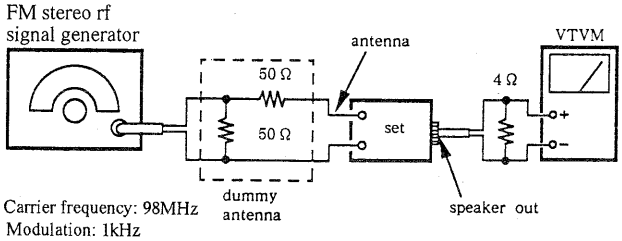
1. Put into service mode.
2. Tune the set to 98MHz.
3. Stop at lighting the indication ◥ of LCD with VR1.
   (Confirm that the set stops auto scanning with FM stereo rf SG output level set at 25dB.)

FM Stereo Separation Adjustmen

Setting:

BAND: FM Stereo

Frequency : 98MHz



Carrier frequency: 98MHz
Modulation: 1kHz
Main: 33.75kHz dev.
Sub: 33.75kHz dev.
19kHz Pilot: 7.5kHz dev.
Output level: 70dB (3.16mV)

Procedure:

1. Turn volume (VR102) so that the set to 0dB on the VTVM.
2. Adjust VR2 for a best stereo separation. (More than 26dB is good.)

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust VR2 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust VR2 for minimum reading.

L-CH stereo separation : Ⓐ - Ⓑ
R-CH stereo separation : Ⓒ - Ⓓ
The separations of both channels should be equal.

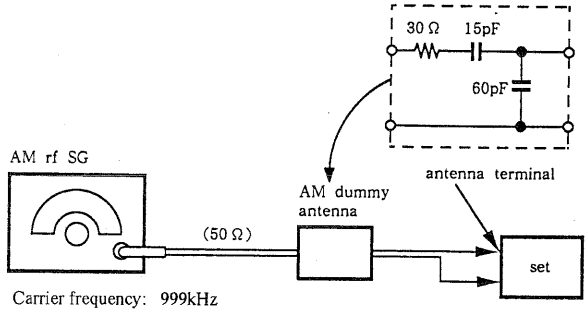
AM SECTION

AM Seek Stop Level Adjustment (AM SD Adjustment)

Setting:

BAND: MW

Frequency: 999kHz

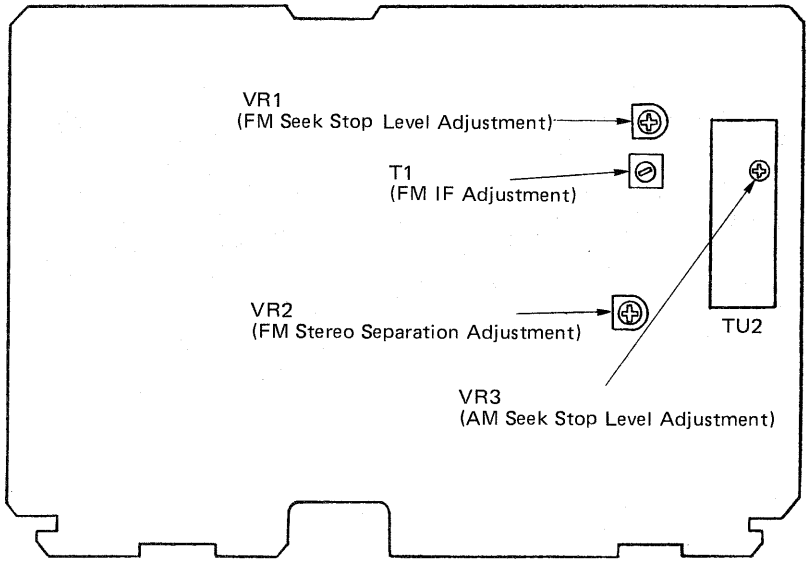


Carrier frequency: 999kHz
Modulation: 400Hz 30%
Output level: 30dB (31uV)

Procedure:

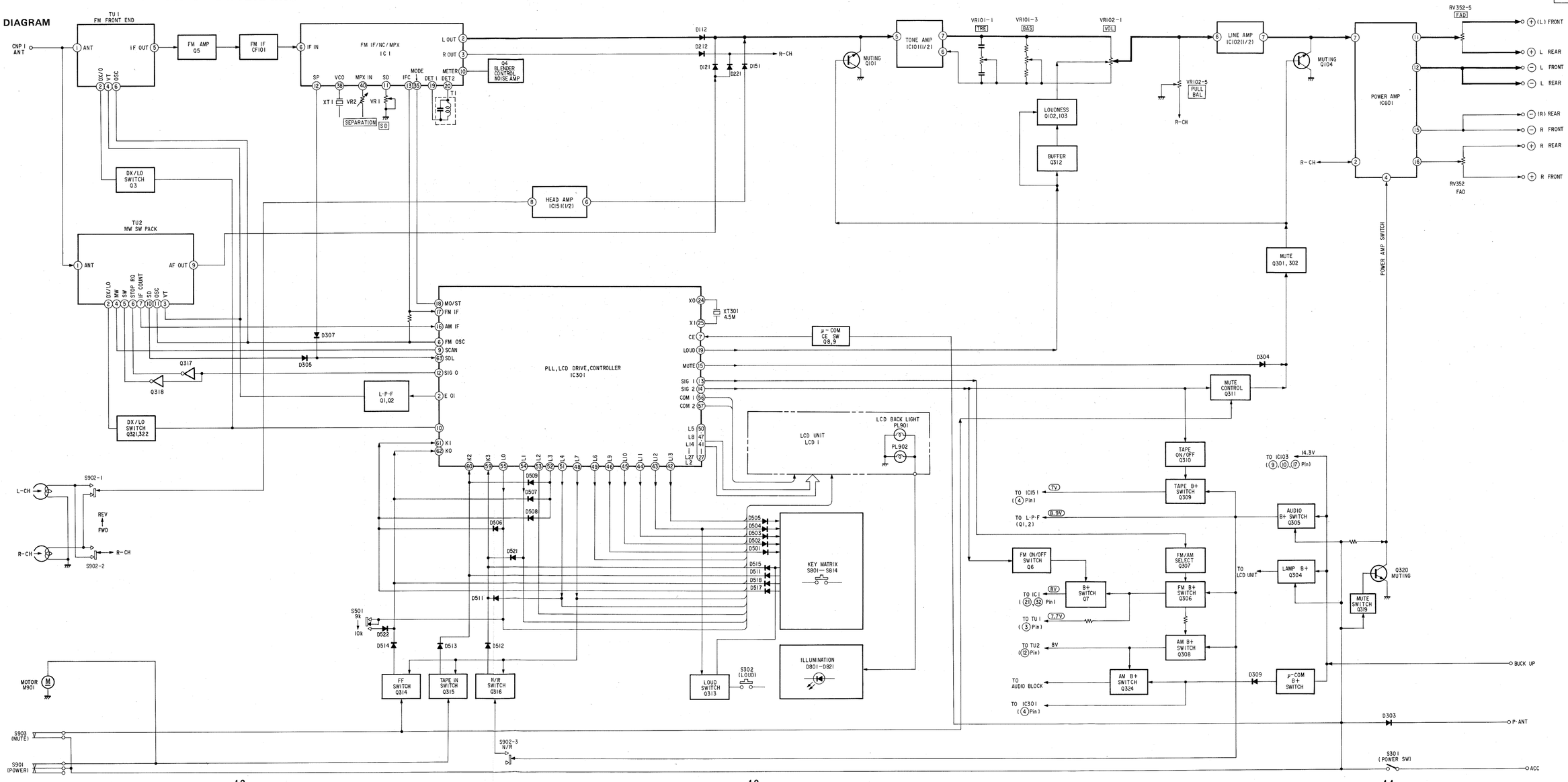
1. Put into service mode.
2. Stop at lighting the indication ◥ of LCD with VR3 of Tuner Pack (TU2) . (Confirm that the set stops auto scanning with AM rf SG output level set at 30dB.)

Adjustment Location:
[MAIN BOARD]



SECTION 3 DIAGRAMS

3-1. BLOCK DIAGRAM



3-2. PRINTED WIRING BOARDS

- Semiconductor Lead Layouts
- Semiconductor Location

TA8221H

2SB1123

2SC3073-Y

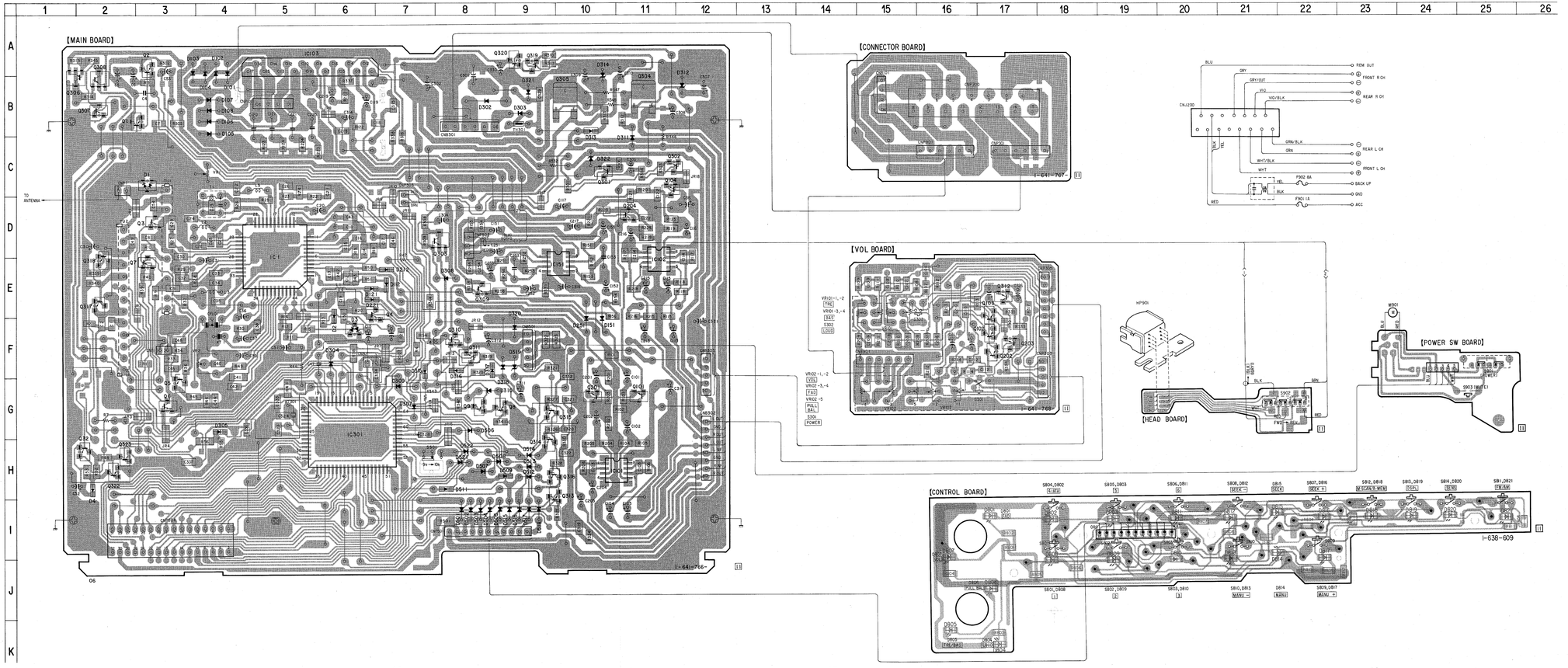
DSA3A4

RB-100A
RD10ES-B1
RD12ES-B1
RD6.8ES-B1
RD7.5ES-B2
RD9.1ES-B2
1SS119
11ES

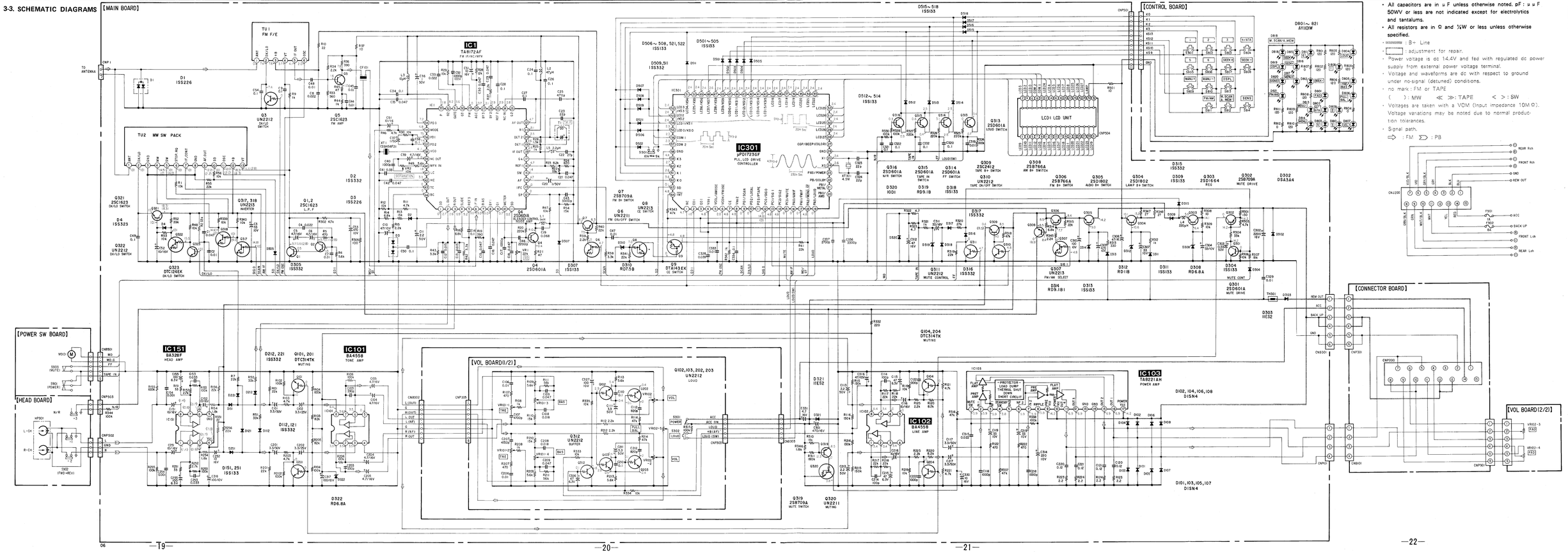
Ref.No	Location	Ref.No	Location	Ref.No	Location
D1	C-3	D505	I-9	IC301	G-6
D2	F-6	D506	G-8		
D3	F-6	D507	H-8	Q1	B-2
D4	H-2	D508	H-9	Q2	A-3
D101	B-4	D509	H-9	Q3	D-3
D102	A-4	D511	H-8	Q4	E-7
D103	A-3	D512	H-9	Q5	G-3
D104	B-4	D513	H-9	Q6	G-3
D105	B-4	D514	H-9	Q7	E-2
D106	B-4	D515	I-9	Q8	G-9
D107	B-4	D516	I-9	Q9	G-8
D108	B-4	D517	I-9	Q101	G-11
D112	E-7	D518	I-9	Q102	F-17
D121	E-6	D521	H-8	Q103	E-17
D151	F-10	D522	H-8	Q104	C-11
D212	E-7	D801	I-17	Q201	G-10
D221	E-6	D802	I-18	Q202	F-17
D251	F-10	D803	I-19	Q203	F-17
D302	B-8	D804	K-17	Q204	D-11
D303	B-9	D805	K-16	Q301	C-10
D304	F-6	D806	J-17	Q302	C-11
D305	G-4	D807	I-16	Q303	D-8
D307	G-7	D808	I-18	Q304	A-11
D308	E-8	D809	J-19	Q305	B-10
D309	G-7	D810	J-20	Q306	B-1
D310	G-8	D811	I-20	Q307	B-2
D311	B-11	D812	I-21	Q308	A-2
D312	A-12	D813	J-21	Q309	E-8
D313	B-10	D814	J-21	Q310	F-8
D314	A-10	D815	I-21	Q311	F-8
D315	F-7	D816	I-22	Q312	E-17
D316	F-8	D817	J-22	Q313	H-10
D317	F-8	D818	I-23	Q314	H-9
D318	G-9	D819	I-24	Q315	G-10
D319	F-9	D820	I-24	Q316	H-10
D320	E-9	D821	I-25	Q317	E-2
D321	B-9			Q318	E-2
D322	C-10	IC1	D-5	Q319	A-9
D501	I-8	IC101	D-5	Q320	A-9
D502	I-8	IC102	E-11	Q321	G-2
D503	I-8	IC103	A-5	Q322	H-2
D504	I-8	IC151	E-10	Q323	H-2

Note on Printed Wiring Boards :

- O—: parts extracted from the component side.
- ●: Through hole.
- ▒: Pattern on the side which is seen.
- ▒: Pattern of the rear side.
- □: Chip components extracted from the rear side.



3-3. SCHEMATIC DIAGRAMS

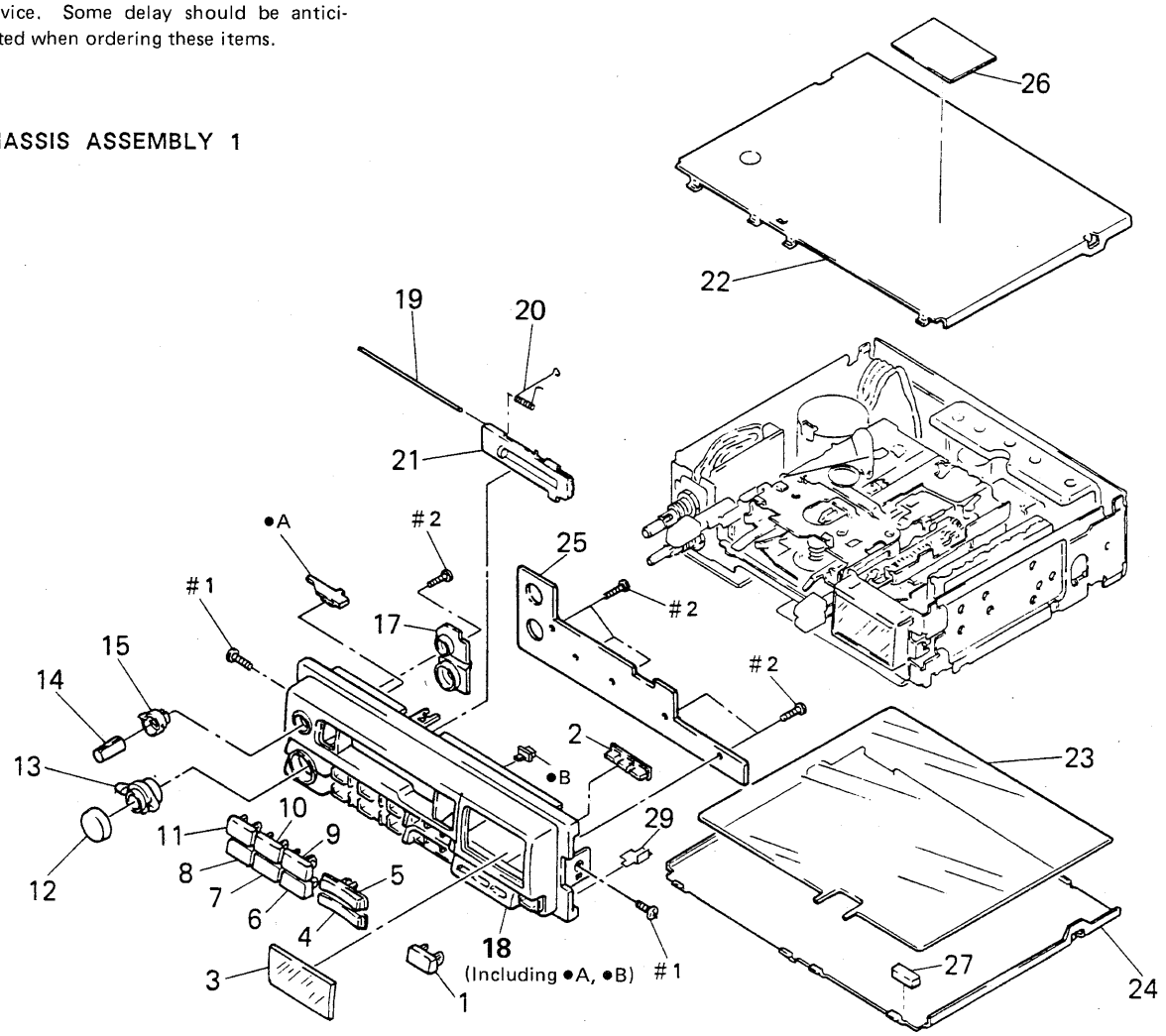

[MAIN BOARD]
[CONTROL BOARD]
[CONNECTOR BOARD]
[POWER SW BOARD]
[HEAD BOARD]
[VOL BOARD(1/2)]
[VOL BOARD(2/2)]
IC1 TA8172AF FM IF/MPX
IC301 μPD1725GF PLL, LCD DRIVE CONTROLLER
IC151 BA328F HEAD AMP
IC101 BA4558 TONE AMP
IC102 BA4558 LINE AMP
IC103 TA8221AH POWER AMP
LCD1 LCD UNIT
Q1,2 2SC1623 IF, F
Q3 UN2212 DX/LO SWITCH
Q5 2SC1623 FM AMP
Q6 UN2211 FM ON/OFF SWITCH
Q7 2SB709A FM RF SWITCH
Q8 UN2213 CE SWITCH
Q9 DTA143EK CE SWITCH
Q10 2SA608A MPX/SUB CARRIER CONTROL
Q11 2SD601A MUTE CONTROL
Q12 2SD601A MUTE DRIVE
Q101, 201 DTC314TK MUTING
Q102,103,202,203 UN2212 LOUD
Q104,204 DTC314TK MUTING
Q301 2SD601A MUTE DRIVE
Q302 2SB709A MUTE DRIVE
Q303 2SC1623 RCO
Q304 2SD1802 LAMP B+ SWITCH
Q305 2SD1802 AUDIO B+ SWITCH
Q306 2SB766A FM B+ SWITCH
Q307 UN2213 FM/AM SELECT
Q308 2SB766A AM B+ SWITCH
Q309 2SC2412 TAPE B+ SWITCH
Q310 UN2213 TAPE ON/OFF SWITCH
Q311 UN2212 MUTE CONTROL
Q312 UN2212 BUFFER
Q313 2SD601A LOUD SWITCH
Q314 2SD601A FF SWITCH
Q315 2SD601A TAPE IN SWITCH
Q316 2SD601A M/N SWITCH
Q317, 318 UN2213 INVERTER
Q319 2SB709A MUTE SWITCH
Q320 UN2211 MUTING
Q321 2SC1623 DX/LO SWITCH
Q322 UN2212 DX/LO SWITCH
Q323 DTC124EK DX/LO SWITCH
D1 1SS226
D2 1SS332
D3 1SS226
D4 1SS323
D501~505 1SS133
D506~508, 521, 522 1SS133
D509, 511 1SS332
D512~514 1SS133
D515~518 1SS133
D519 RD9.1B
D520 RD1
D301 RD6.8A
D302 DA3J44
D303 1IE52
D304 RD9.1B1
D305 1SS332
D306 RD6.8A
D307 1SS133
D308 RD6.8A
D309 1SS133
D310 RD7.5B
D311 1SS133
D312 RD1IB
D313 1SS133
D314 RD9.1B1
D315 1SS332
D316 1SS332
D317 1SS332
D318 1SS133
D321 1IE52
D322 RD6.8A
D501~821 AYI0DW
CN1 TO ANTENNA
CN301 SPEAKER
CN302 REAR Rch, FRONT Rch, REW OUT
CN303 ACC, BACK UP, GND
CN304 HEW OUT, ACC, BACK UP, GND
CN305 VOL BOARD(1/2)
CN306 VOL BOARD(2/2)
CN307 REAR Rch, FRONT Rch, REW OUT
CN308 REAR Lch, FRONT Lch
CN501 CONTROL BOARD
CN502 HEAD BOARD
CN503 POWER SW BOARD
CN504 LCD UNIT
CN505 CONTROL BOARD
CN2200 REAR Rch, FRONT Rch, REW OUT
CN2300 REAR Lch, FRONT Lch
TU1 FM F/E
TU2 MW SW PACK
SW1 POWER
SW2 TAPE/FM-MONO
SW3 DOLBY NR
SW4 LOUD
SW5 TAPE IN
SW6 M/N
SW7 FF
SW8 REW
SW9 PLAY
SW10 STOP/EJECT
SW11 DOLBY NR
SW12 LOUD
SW13 TAPE IN
SW14 M/N
SW15 FF
SW16 REW
SW17 PLAY
SW18 STOP/EJECT
SW19 DOLBY NR
SW20 LOUD
SW21 TAPE IN
SW22 M/N
SW23 FF
SW24 REW
SW25 PLAY
SW26 STOP/EJECT

SECTION 4
EXPLODED VIEWS

NOTE:

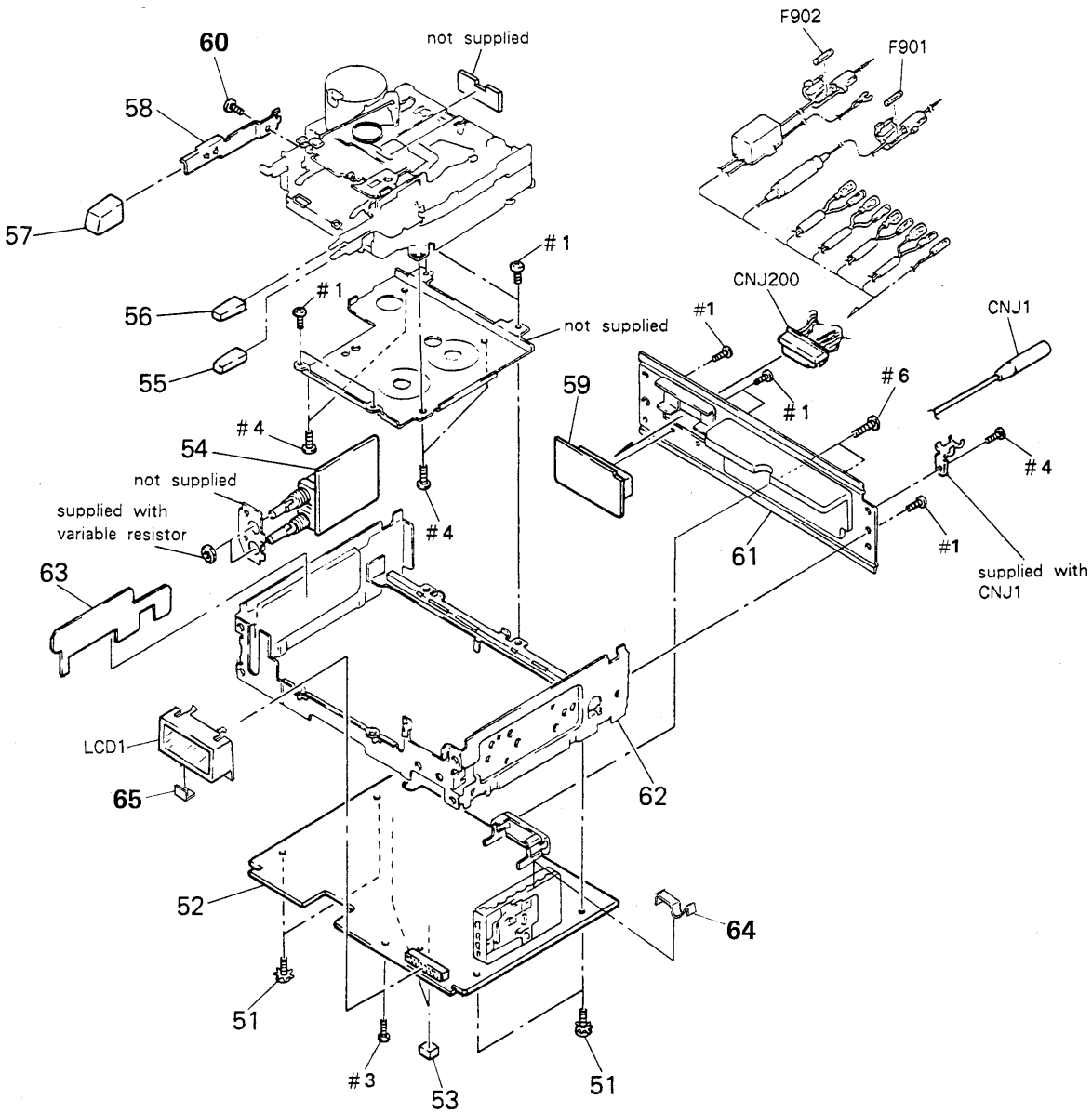
- –XX, –X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

(1) CHASSIS ASSEMBLY 1



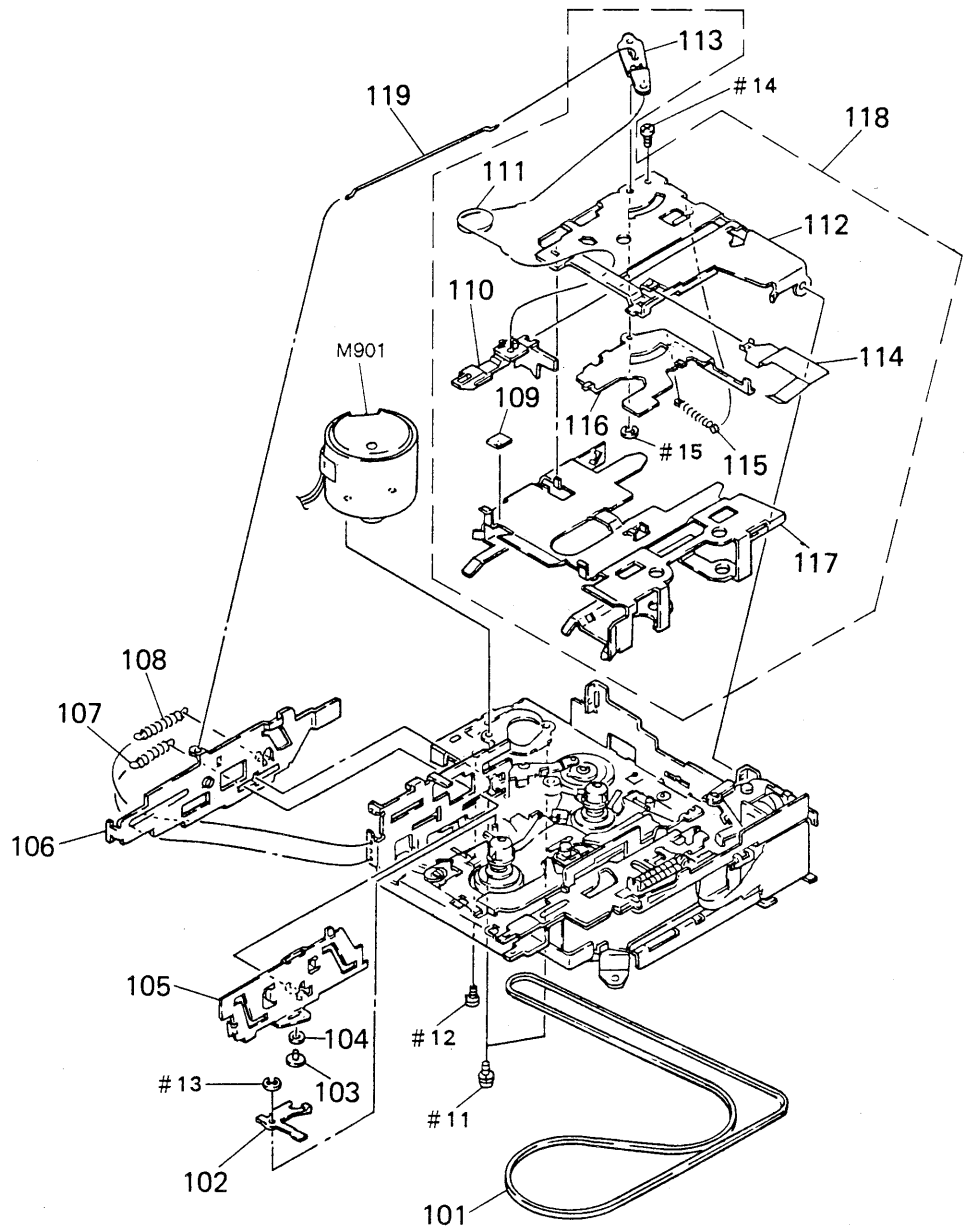
Ref.No.	Part No.	Description	Remark
1	3-373-063-01	BUTTON (RD:N1)	
2	3-366-852-01	BUTTON (M, S, S)	
3	3-366-830-03	WINDOW (LCD)	
4	3-366-851-01	BUTTON (M:S2W)	
5	3-366-850-01	BUTTON (M:S1W)	
6	3-366-846-01	BUTTON (M:N6PW)	
7	3-366-845-01	BUTTON (M:N5PW)	
8	3-366-844-01	BUTTON (M:N4PW)	
9	3-366-843-01	BUTTON (M:N3PW)	
10	3-366-842-01	BUTTON (M:N2PW)	
11	3-366-841-01	BUTTON (M:N1PW)	
12	X-3362-740-1	KNOB (VOL) ASSY	
13	3-366-825-01	KNOB (FAD)	
14	X-3362-741-1	KNOB (TRE) ASSY	
15	3-366-826-01	KNOB (BASS)	
* 17	3-366-829-01	PLATE (VOL), LIGHT GUIDE	
18	X-3362-744-1	PANEL SUB ASSY, FRONT	
19	3-350-709-01	SHAFT, CASSETTE DOOR	
20	3-368-754-01	SPRING, TORSION	
21	X-3363-697-1	LID ASSY, CASSETTE	
* 22	3-353-402-71	COVER (UPPER)	
* 23	3-344-560-61	INSULATOR (3)	
* 24	3-353-402-01	COVER (LOWER)	
* 25	A-3273-706-A	CONTROL BOARD, COMPLETE	
* 26	3-373-068-01	LABEL, MODEL NUMBER	
27	9-911-840-XX	CUSHION, CASSETTE LID	
* 29	3-368-473-01	PLATE (F), SHIELD	

(2) CHASSIS ASSEMBLY 2



Ref.No.	Part No.	Description	Remark
51	3-344-501-12	SCREW (+ PTT 3X8), GROUND POINT	
* 52	A-3222-324-A	MAIN BOARD, COMPLETE	
53	9-911-841-XX	CUSHION, CASSETTE LID	
* 54	1-641-768-11	VOL BOARD	
55	3-366-837-01	BUTTON (REW)	
56	3-366-836-01	BUTTON (FF)	
57	3-366-835-01	BUTTON (EJECT)	
* 58	3-366-857-01	LEVER (EJECT)	
* 59	1-641-767-11	CONNECTOR BOARD	
60	3-372-033-11	SCREW (2.6X3), +P	
* 61	X-3362-731-1	CHASSIS (REAR C) ASSY	
* 62	X-3362-728-1	CHASSIS ASSY	
* 63	3-368-475-01	INSULATOR	
* 64	3-375-335-01	PLATE, GROUND	
65	9-911-815-01	CUSHION	
CNJ1	1-574-339-11	CORD (WITH CONNECTOR)	
CNJ200	1-590-584-11	CORD (WITH CONNECTOR & FUSE)	
F901	1-532-433-11	FUSE, GLASS TUBE 1A	
F902	1-576-075-11	FUSE, GLASS TUBE 8A	
LCD1	1-809-535-11	DISPLAY PANEL, LIQUID CRYSTAL	

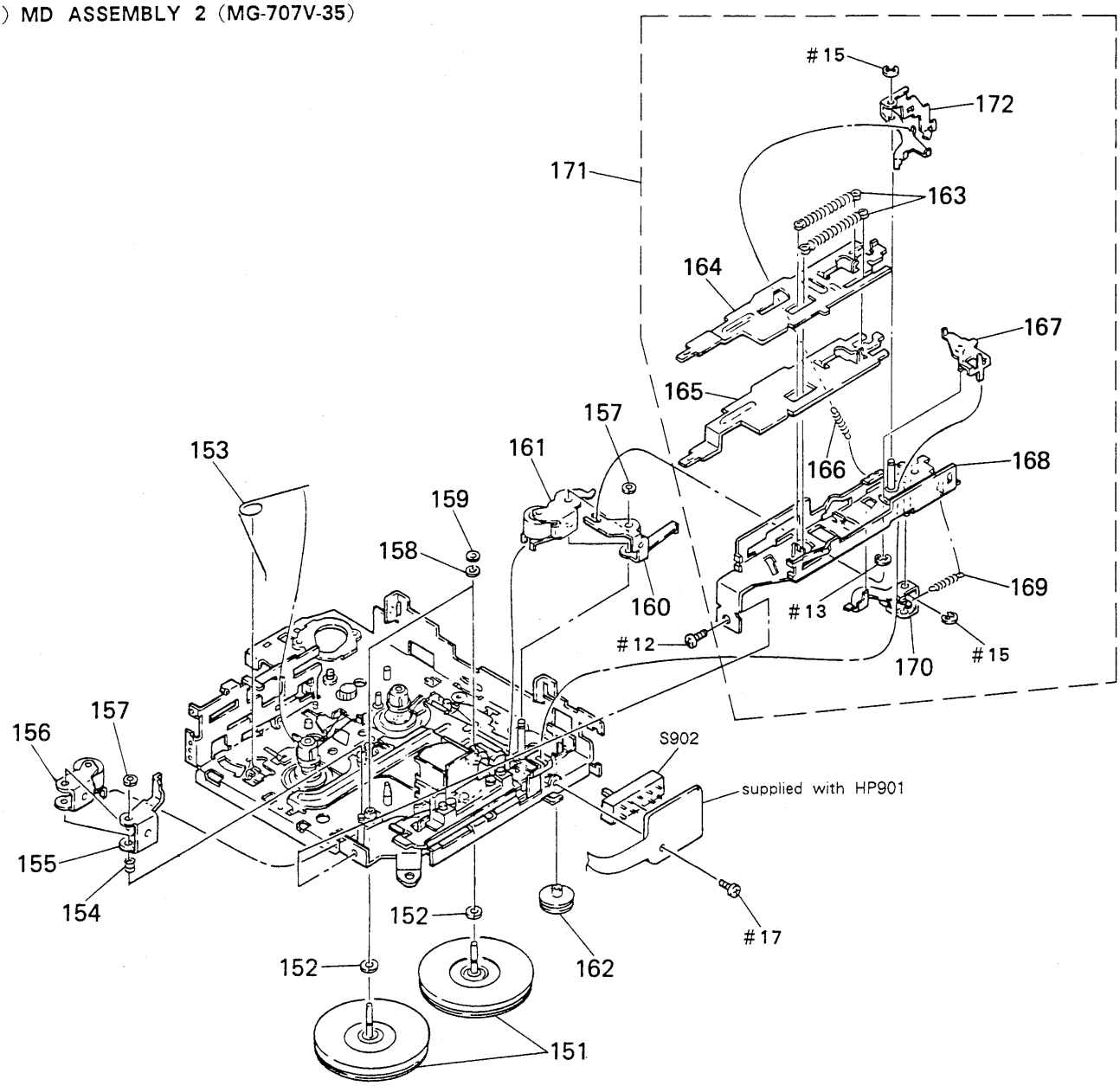
(3) MD ASSEMBLY 1 (MG-707V-35)



Ref. No.	Part No.	Description	Remark
101	3-367-284-01	BELT, MAIN	
102	3-367-313-01	ARM, H.P PUSH	
103	3-367-264-01	ROLLER (A), H.P	
104	3-367-265-01	ROLLER (B), H.P	
* 105	3-367-311-01	PLATE (M), PUSH, C.H	
* 106	3-367-269-01	LEVER (M), PUSH	
107	3-367-267-01	SPRING, C.H	
108	3-367-268-01	SPRING, PUSH LEVER	
109	3-367-254-01	RUBBER, CUSHION	
110	3-367-258-01	SLIDER (C), PACK	

Ref. No.	Part No.	Description	Remark
111	3-367-255-01	SPRING (C), REVERSE	
* 112	3-367-251-01	LIFTER, CASE	
* 113	3-367-252-01	RIVETING ASSY, P.E PLATE	
* 114	3-367-259-01	SPRING, PACK RETAINER	
115	3-367-253-01	SPRING, C.D	
* 116	3-367-257-01	PLATE (B), C.D	
* 117	3-367-256-01	CASE (M), CASSETTE	
118	X-3362-789-1	CASETE CASE ASSY (109-117, #15)	
119	3-367-260-01	SPRING, P.E	
M901	3-367-276-01	MOTOR ASSY	

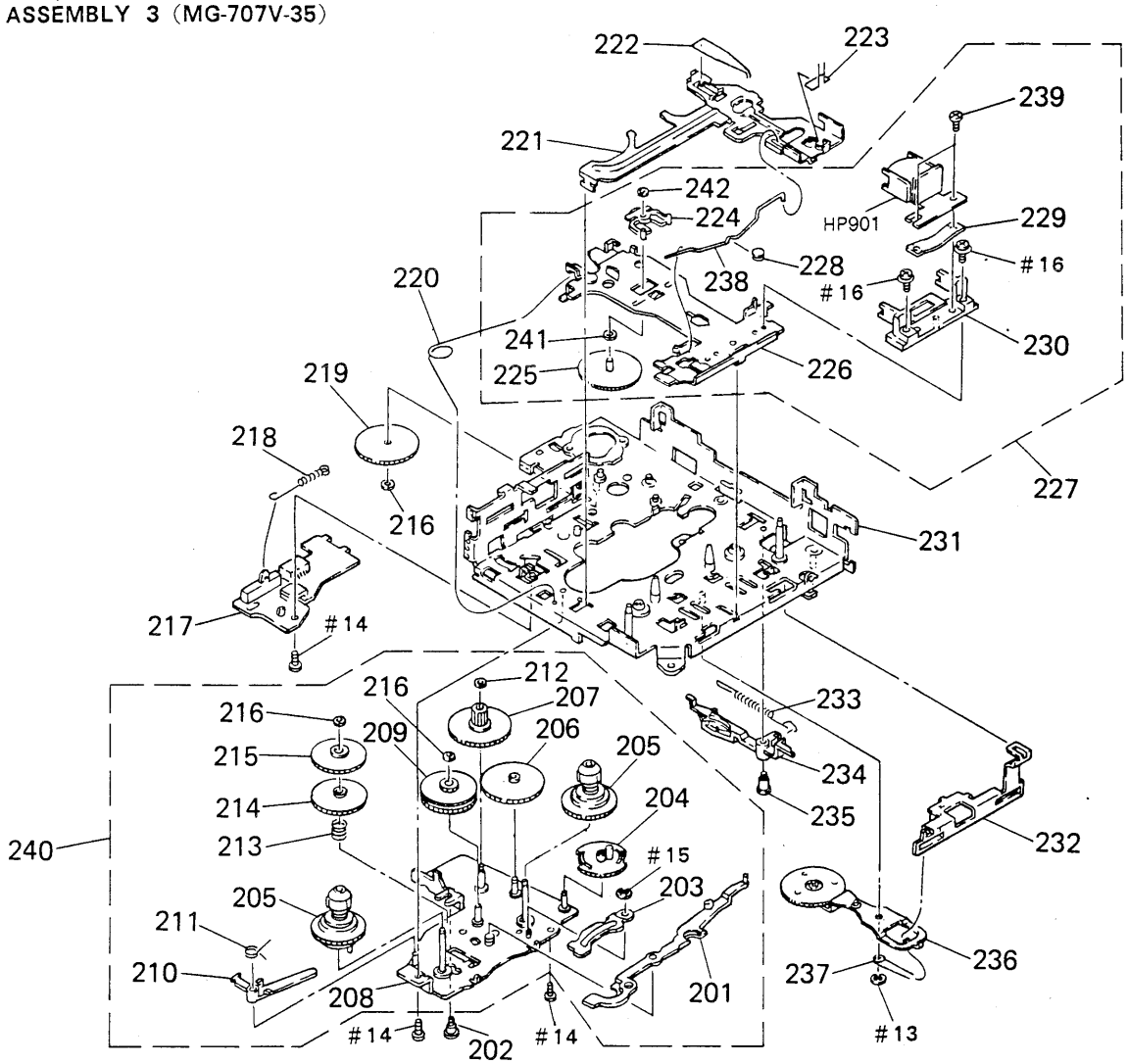
(4) MD ASSEMBLY 2 (MG-707V-35)



Ref. No.	Part No.	Description	Remark
151	3-367-283-01	RIVETING ASSY, F.L CAPSTAN	
152	3-701-437-01	WASHER	
153	3-367-314-01	SPRING (M), HEAD PANEL	
154	3-367-285-01	SPRING, P.P	
* 155	3-367-296-01	ARM, H.P RETURN	
156	3-367-232-01	ARM (R) ASSY, PINCH ROLLER	
157	3-676-387-00	POLY-SLIDER (DIA. 1.6)	
158	3-315-495-41	WASHER	
159	3-592-680-00	WASHER (C), POLYETHYLENE	
* 160	3-367-292-01	PLATE, FUNCTION, SEESAW	
161	3-367-231-01	ARM (F) ASSY, PINCH ROLLER	
162	3-367-287-01	PULLEY, MIDWAY	

Ref. No.	Part No.	Description	Remark
163	3-367-298-01	SPRING, F.R LEVER	
* 164	3-367-299-01	LEVER (M.V), FF	
* 165	3-367-300-01	LEVER (M.V), REW	
166	3-367-304-01	SPRING (M), LOCK PLATE	
* 167	3-367-234-01	RIVETING ASSY, SEESAW PLATE (M)	
* 168	3-367-233-01	RIVETING ASSY, F.R BRACKET (M)	
169	3-367-302-01	SPRING, P.C	
* 170	3-367-301-01	PLATE, P.C	
171	X-3362-792-1	F·R LEVER ASSY	
* 172	3-367-303-01	LOCK PLATE (M)	
S902	1-572-712-11	SWITCH, SLIDE	

(5) MD ASSEMBLY 3 (MG-707V-35)



Ref. No.	Part No.	Description	Remark
201	3-367-241-01	PLATE (B), E.D	
202	3-367-295-01	SCREW (P), COLOR	
* 203	3-367-245-01	PLATE, LIFTUP	
204	3-367-240-01	GEAR (M), REVERSE	
205	3-367-235-01	REEL ASSY, T	
206	3-367-239-01	GEAR, E.D	
207	3-367-238-01	GEAR, P.D	
* 208	3-367-242-01	RIVETING ASSY, M.G PLATE	
209	3-367-244-01	CLUTCH ASSY, P	
210	3-367-246-01	ARM, REVERSE PREVENTION	
211	3-367-247-01	SPRING	
212	3-676-387-00	POLY-SLIDER (DIA.1.6)	
213	3-367-243-01	SPRING, T.N	
214	3-367-237-01	GEAR (R), F	
215	3-367-236-01	GEAR (R), P	
216	3-318-236-01	WASHER, POLY, SLIT	
* 217	3-367-315-01	SWITCH ASSY, POWER	
218	3-367-293-01	SPRING, POWER SWITCH	
219	3-367-286-01	GEAR (M), MAIN	
220	3-367-314-01	SPRING (M), HEAD PANEL	
* 221	3-367-272-01	PLATE, MAIN	
222	3-367-273-01	SPRING, M.S	

Ref. No.	Part No.	Description	Remark
223	3-367-274-01	SPRING, H.S	
224	3-367-226-01	METAL, P. GEAR	
225	3-367-227-01	GEAR, P	
* 226	3-367-223-01	RIVETING ASSY, HEAD PANEL	
227	X-3362-824-1	HEAD PANEL ASSY	
228	3-367-224-01	ROLLER, SP	
229	3-367-229-01	PLATE (H), HEAD SP	
230	3-367-228-01	GUIDE, TAPE	
* 231	3-367-222-01	RIVETING ASSY, CHASSIS	
* 232	3-367-294-01	PLATE (M), F.R SLIDE	
233	3-367-297-01	SPRING (C), T.A	
234	3-367-289-01	ARM (C), TRIGGER	
235	3-367-290-01	SCREW (T), COLOR	
236	X-3362-791-1	F·R WORKING ASSY	
237	3-367-282-01	SPRING (M), F.R	
238	3-367-225-01	SPRING, P.R	
239	3-390-757-01	SCREW, ADJUSTMENT, AZIMUTH	
240	X-3362-788-1	M·G PLATE ASSY	
241	3-701-447-11	WASHER, 10	
242	3-325-290-21	WASHER, STOPPER	
HP901	1-543-829-11	HEAD, CERAMIC (PLAYBACK)	

SECTION 5
ELECTRICAL PARTS LIST

CONTROL

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- –XX, –X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
		CONNECTOR BOARD	
		**********	
*	1-641-767-11	CONNECTOR BOARD	
		< CONNECTOR >	
CNP200	1-580-981-11	CONNECTOR 15P	
* CNP301	1-564-521-11	PLUG, CONNECTOR 6P	
* CNP901	1-564-521-11	PLUG, CONNECTOR 6P	
**********			
*	A-3273-706-A	CONTROL BOARD, COMPLETE	
		**********	
		< DIODE >	
D801	8-719-975-84	DIODE AY1101W	
D802	8-719-975-84	DIODE AY1101W	
D803	8-719-975-84	DIODE AY1101W	
D804	8-719-975-84	DIODE AY1101W	
D805	8-719-975-84	DIODE AY1101W	
D806	8-719-975-84	DIODE AY1101W	
D807	8-719-975-84	DIODE AY1101W	
D808	8-719-975-84	DIODE AY1101W	
D809	8-719-975-84	DIODE AY1101W	
D810	8-719-975-84	DIODE AY1101W	
D811	8-719-975-84	DIODE AY1101W	
D812	8-719-975-84	DIODE AY1101W	
D813	8-719-975-84	DIODE AY1101W	
D814	8-719-975-84	DIODE AY1101W	
D815	8-719-975-84	DIODE AY1101W	
D816	8-719-975-84	DIODE AY1101W	
D817	8-719-975-84	DIODE AY1101W	
D818	8-719-975-84	DIODE AY1101W	
D819	8-719-975-84	DIODE AY1101W	
D820	8-719-975-84	DIODE AY1101W	
D821	8-719-975-84	DIODE AY1101W	
		< JUMPER >	
JR801	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR804	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR805	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR808	1-216-295-00	METAL CHIP 0 5% 1/10W	
		< RESISTOR >	
R801	1-216-176-00	METAL GLAZE 120 5% 1/8W	
R802	1-216-176-00	METAL GLAZE 120 5% 1/8W	
R803	1-216-176-00	METAL GLAZE 120 5% 1/8W	
R804	1-216-296-00	METAL CHIP 0 5% 1/8W	
R805	1-216-176-00	METAL GLAZE 120 5% 1/8W	
R806	1-216-176-00	METAL GLAZE 120 5% 1/8W	
R807	1-216-296-00	METAL CHIP 0 5% 1/8W	
R808	1-216-176-00	METAL GLAZE 120 5% 1/8W	
R809	1-216-176-00	METAL GLAZE 120 5% 1/8W	
R810	1-216-176-00	METAL GLAZE 120 5% 1/8W	
R811	1-216-176-00	METAL GLAZE 120 5% 1/8W	
R812	1-216-296-00	METAL CHIP 0 5% 1/8W	
		< SWITCH >	
S801	1-572-704-21	SWITCH, KEY BOARD (1)	
S802	1-572-704-21	SWITCH, KEY BOARD (2)	
S803	1-572-704-21	SWITCH, KEY BOARD (3)	
S804	1-572-704-21	SWITCH, KEY BOARD (4/ATA)	
S805	1-572-704-21	SWITCH, KEY BOARD (5)	
S806	1-572-704-21	SWITCH, KEY BOARD (6)	
S807	1-572-704-21	SWITCH, KEY BOARD (SEEK +)	
S808	1-572-704-21	SWITCH, KEY BOARD (SEEK -)	

CONTROL MAIN

Ref.No.	Part No.	Description			Remark
S809	1-572-704-21	SWITCH, KEY BOARD (MANU +)			
S810	1-572-704-21	SWITCH, KEY BOARD (MANU -)			
S811	1-572-704-21	SWITCH, KEY BOARD (FM/AM)			
S812	1-572-704-21	SWITCH, KEY BOARD (M.SCAN/A.MEM)			
S813	1-572-704-21	SWITCH, KEY BOARD (DSPL)			
S814	1-572-704-21	SWITCH, KEY BOARD (SENS)			
**********					
*	A-3222-324-A	MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C2	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C3	1-124-229-00	ELECT	33uF	20%	10V
C4	1-163-157-00	FILM	0.022uF	5%	50V
C5	1-126-288-11	ELECT	4.7uF	20%	16V
C6	1-126-288-11	ELECT	4.7uF	20%	16V
C7	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C8	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C9	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C10	1-124-589-11	ELECT	47uF	20%	16V
C11	1-124-257-00	ELECT	2.2uF	20%	50V
C12	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C13	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C14	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C15	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C16	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C17	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C18	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C19	1-163-833-00	CERAMIC CHIP	0.068uF		25V
C20	1-126-301-11	ELECT	1uF	20%	50V
C21	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C22	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C24	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C25	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C26	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C27	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C28	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C29	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C30	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C31	1-126-157-11	ELECT	10uF	20%	16V
C32	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C33	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C34	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C35	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C36	1-131-347-00	TANTALUM	1uF	10%	35V
C37	1-131-347-00	TANTALUM	1uF	10%	35V
C38	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C39	1-126-288-11	ELECT	4.7uF	20%	16V
C40	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C41	1-162-568-11	CERAMIC CHIP	0.33uF		25V
C42	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C43	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C44	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C45	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C46	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C47	1-136-153-00	FILM	0.01uF	5%	50V
C48	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C49	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C50	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C51	1-126-157-11	ELECT	10uF	20%	16V
C52	1-126-157-11	ELECT	10uF	20%	16V
C53	1-126-925-11	ELECT	470uF	20%	10V
C54	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C101	1-126-162-11	ELECT	3.3uF	20%	50V
C102	1-126-162-11	ELECT	3.3uF	20%	50V
C103	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C104	1-126-288-11	ELECT	4.7uF	20%	16V
C105	1-126-288-11	ELECT	4.7uF	20%	16V
C113	1-124-257-00	ELECT	2.2uF	20%	50V
C114	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C115	1-126-154-11	ELECT	47uF	20%	6.3V
C116	1-126-157-11	ELECT	10uF	20%	16V
C117	1-126-162-11	ELECT	3.3uF	20%	50V
C118	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C119	1-128-078-11	ELECT	33uF	20%	10V
C120	1-136-166-00	FILM	0.12uF	5%	50V
C121	1-136-166-00	FILM	0.12uF	5%	50V
C122	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C151	1-126-157-11	ELECT	10uF	20%	16V
C152	1-126-157-11	ELECT	10uF	20%	16V
C153	1-136-171-00	FILM	0.033uF	5%	50V
C154	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C155	1-124-584-00	ELECT	100uF	20%	10V
C201	1-126-162-11	ELECT	3.3uF	20%	50V
C202	1-126-162-11	ELECT	3.3uF	20%	50V
C203	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C204	1-126-288-11	ELECT	4.7uF	20%	16V
C205	1-126-288-11	ELECT	4.7uF	20%	16V
C213	1-124-257-00	ELECT	2.2uF	20%	50V
C214	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C215	1-126-154-11	ELECT	47uF	20%	6.3V
C216	1-126-157-11	ELECT	10uF	20%	16V
C217	1-126-162-11	ELECT	3.3uF	20%	50V
C218	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V

MAIN

Ref.No.	Part No.	Description			Remark
C219	1-128-078-11	ELECT	33uF	20%	10V
C220	1-136-166-00	FILM	0.12uF	5%	50V
C221	1-136-166-00	FILM	0.12uF	5%	50V
C222	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C251	1-126-157-11	ELECT	10uF	20%	16V
C252	1-126-157-11	ELECT	10uF	20%	16V
C253	1-136-171-00	FILM	0.033uF	5%	50V
C254	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C255	1-124-584-00	ELECT	100uF	20%	10V
C301	1-128-353-11	ELECT	470uF	20%	16V
C302	1-128-355-11	ELECT	2200uF	20%	16V
C303	1-124-252-00	ELECT	0.33uF	20%	50V
C304	1-124-229-00	ELECT	33uF	20%	10V
C307	1-124-034-51	ELECT	33uF	20%	16V
C308	1-124-589-11	ELECT	47uF	20%	16V
C309	1-126-925-11	ELECT	470uF	20%	10V
C310	1-124-584-00	ELECT	100uF	20%	10V
C311	1-124-242-00	ELECT	33uF	20%	25V
C312	1-124-589-11	ELECT	47uF	20%	16V
C314	1-126-335-11	ELECT	220uF	20%	10V
C315	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C316	1-124-589-11	ELECT	47uF	20%	16V
C317	1-124-584-00	ELECT	100uF	20%	10V
C318	1-124-584-00	ELECT	100uF	20%	10V
C319	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C320	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C321	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C322	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C323	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C324	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C328	1-162-587-11	CERAMIC CHIP	0.039uF	10%	25V
C329	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C330	1-126-157-11	ELECT	10uF	20%	16V
C331	1-126-288-11	ELECT	4.7uF	20%	16V
C332	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C333	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C334	1-164-004-11	CERAMIC CHIP	0.1uF		50V
C336	1-163-053-00	CERAMIC CHIP	3300PF	10%	50V
C337	1-163-052-00	CERAMIC CHIP	2700PF	10%	50V

< FILTER >

CF101	1-567-415-11	FILTER, CERAMIC	

< CONNECTOR >

* CNP1	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P	
* CNP101	1-564-507-11	PLUG, CONNECTOR 4P	
* CNP501	1-566-008-11	PIN, CONNECTOR (PC BOARD) 11P	
* CNP502	1-506-999-11	PIN, CONNECTOR (PC BOARD) 3P	
* CNP503	1-506-998-11	PIN, CONNECTOR (PC BOARD) 2P	

Ref.No.	Part No.	Description	Remark
* CNP504	1-573-073-11	SOCKET, CONNECTOR 32P	

< DIODE >

D1	8-719-800-76	DIODE	1SS226
D2	8-719-404-46	DIODE	MA110
D3	8-719-800-76	DIODE	1SS226
D4	8-719-404-46	DIODE	MA110
D101	8-719-981-50	DIODE	RB-100A
D102	8-719-981-50	DIODE	RB-100A
D103	8-719-981-50	DIODE	RB-100A
D104	8-719-981-50	DIODE	RB-100A
D105	8-719-981-50	DIODE	RB-100A
D106	8-719-981-50	DIODE	RB-100A
D107	8-719-981-50	DIODE	RB-100A
D108	8-719-981-50	DIODE	RB-100A
D112	8-719-404-46	DIODE	MA110
D121	8-719-404-46	DIODE	MA110
D151	8-719-911-19	DIODE	1SS119
D212	8-719-404-46	DIODE	MA110
D221	8-719-404-46	DIODE	MA110
D251	8-719-911-19	DIODE	1SS119
D302	8-719-945-59	DIODE	DSA3A4
D303	8-719-200-82	DIODE	11ES2
D304	8-719-911-19	DIODE	1SS119
D305	8-719-404-46	DIODE	MA110
D307	8-719-911-19	DIODE	1SS119
D308	8-719-109-96	DIODE	RD6.8ES-B1
D309	8-719-911-19	DIODE	1SS119
D310	8-719-110-03	DIODE	RD7.5ES-B2
D311	8-719-911-19	DIODE	1SS119
D312	8-719-110-30	DIODE	RD12ES-B1
D313	8-719-404-46	DIODE	MA110
D314	8-719-110-16	DIODE	RD10ES-B1
D315	8-719-404-46	DIODE	MA110
D316	8-719-404-46	DIODE	MA110
D317	8-719-404-46	DIODE	MA110
D318	8-719-911-19	DIODE	1SS119
D319	8-719-110-13	DIODE	RD9.1ES-B2
D320	8-719-200-82	DIODE	11ES2
D321	8-719-200-82	DIODE	11ES2
D322	8-719-109-96	DIODE	RD6.8ES-B1
D501	8-719-911-19	DIODE	1SS119
D502	8-719-911-19	DIODE	1SS119
D503	8-719-911-19	DIODE	1SS119
D504	8-719-911-19	DIODE	1SS119
D505	8-719-911-19	DIODE	1SS119
D506	8-719-911-19	DIODE	1SS119
D507	8-719-911-19	DIODE	1SS119

Ref.No.	Part No.	Description				Remark
D508	8-719-911-19	DIODE	1SS119			
D509	8-719-404-46	DIODE	MA110			
D511	8-719-404-46	DIODE	MA110			
D512	8-719-911-19	DIODE	1SS119			
D513	8-719-911-19	DIODE	1SS119			
D514	8-719-911-19	DIODE	1SS119			
D515	8-719-911-19	DIODE	1SS119			
D516	8-719-911-19	DIODE	1SS119			
D517	8-719-911-19	DIODE	1SS119			
D518	8-719-911-19	DIODE	1SS119			
D521	8-719-911-19	DIODE	1SS119			
D522	8-719-911-19	DIODE	1SS119			
		< IC >				
IC1	8-759-246-22	IC	TA8172AF			
IC101	8-759-909-71	IC	BA4558F			
IC102	8-759-909-71	IC	BA4558F			
IC103	8-759-242-83	IC	TA8221H			
IC151	8-759-046-31	IC	BA328F			
IC301	8-759-052-60	IC	uPD1723GF-588-3B9			
		< JUMPER >				
JR1	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR2	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR3	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR4	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR6	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR7	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR8	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR9	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR10	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR11	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR12	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR13	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR14	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR15	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR16	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR17	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR18	1-216-295-00	METAL CHIP	0	5%	1/10W	
		< COIL >				
L1	1-410-171-11	INDUCTOR	1mH			
L2	1-408-417-00	INDUCTOR	47uH			
L3	1-410-509-11	INDUCTOR	10uH			
L4	1-410-336-11	INDUCTOR	220uH			
L5	1-410-501-11	INDUCTOR	2.2uH			

Ref.No.	Part No.	Description				Remark
		< TRANSISTOR >				
Q1	8-729-100-66	TRANSISTOR	2SC1623			
Q2	8-729-100-66	TRANSISTOR	2SC1623			
Q3	8-729-424-59	TRANSISTOR	UN2212			
Q4	8-729-422-28	TRANSISTOR	2SD601A-R			
Q5	8-729-100-66	TRANSISTOR	2SC1623			
Q6	8-729-421-22	TRANSISTOR	UN2211			
Q7	8-729-422-37	TRANSISTOR	2SB709A-R			
Q8	8-729-421-19	TRANSISTOR	UN2213			
Q9	8-729-901-47	TRANSISTOR	DTA143EK			
Q101	8-729-920-21	TRANSISTOR	DTC314TKH04			
Q104	8-729-920-21	TRANSISTOR	DTC314TKH04			
Q201	8-729-920-21	TRANSISTOR	DTC314TKH04			
Q204	8-729-920-21	TRANSISTOR	DTC314TKH04			
Q301	8-729-422-28	TRANSISTOR	2SD601A-R			
Q302	8-729-422-37	TRANSISTOR	2SB709A-R			
Q303	8-729-920-85	TRANSISTOR	2SD1664-QR			
Q304	8-729-807-12	TRANSISTOR	2SC3073-Y			
Q305	8-729-807-12	TRANSISTOR	2SC3073-Y			
Q306	8-729-807-33	TRANSISTOR	2SB1123			
Q307	8-729-421-19	TRANSISTOR	UN2213			
Q308	8-729-807-33	TRANSISTOR	2SB1123			
Q309	8-729-422-28	TRANSISTOR	2SD601A-R			
Q310	8-729-424-59	TRANSISTOR	UN2212			
Q311	8-729-424-59	TRANSISTOR	UN2212			
Q313	8-729-422-28	TRANSISTOR	2SD601A-R			
Q314	8-729-422-28	TRANSISTOR	2SD601A-R			
Q315	8-729-422-28	TRANSISTOR	2SD601A-R			
Q316	8-729-422-28	TRANSISTOR	2SD601A-R			
Q317	8-729-421-19	TRANSISTOR	UN2213			
Q318	8-729-421-19	TRANSISTOR	UN2213			
Q319	8-729-422-37	TRANSISTOR	2SB709A-R			
Q320	8-729-421-22	TRANSISTOR	UN2211			
Q321	8-729-100-66	TRANSISTOR	2SC1623			
Q322	8-729-424-59	TRANSISTOR	UN2212			
Q323	8-729-901-00	TRANSISTOR	DTC124EK			
		< RESISTOR >				
R1	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R2	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R4	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R5	1-216-041-00	METAL CHIP	470	5%	1/10W	
R7	1-249-433-11	CARBON	22K	5%	1/4W	
R9	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R10	1-216-009-00	METAL CHIP	22	5%	1/10W	
R11	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R12	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R13	1-216-077-00	METAL CHIP	15K	5%	1/10W	

MAIN

Ref.No.	Part No.	Description				Remark
R14	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R15	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R18	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R19	1-216-039-00	METAL CHIP	390	5%	1/10W	
R20	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R21	1-216-017-00	METAL CHIP	47	5%	1/10W	
R22	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R23	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R24	1-216-047-00	METAL CHIP	820	5%	1/10W	
R25	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R26	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R27	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R28	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R29	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R30	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R33	1-216-043-00	METAL CHIP	560	5%	1/10W	
R34	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R36	1-216-039-00	METAL CHIP	390	5%	1/10W	
R37	1-216-001-00	METAL CHIP	10	5%	1/10W	
R38	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W	
R39	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R40	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R41	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R42	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R43	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R44	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R45	1-216-017-00	METAL CHIP	47	5%	1/10W	
R46	1-249-425-11	CARBON	4.7K	5%	1/4W	
R47	1-249-429-11	CARBON	10K	5%	1/4W	
R48	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R49	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R50	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R51	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R52	1-216-748-11	METAL CHIP	39K	1%	1/10W	
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R54	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R55	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R56	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R101	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R102	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R103	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R104	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R105	1-216-095-00	METAL CHIP	82K	5%	1/10W	
R106	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R115	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R116	1-216-100-00	METAL GLAZE	130K	5%	1/10W	
R117	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R118	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R119	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R120	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R121	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R122	1-216-041-00	METAL CHIP	470	5%	1/10W	
R123	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R124	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R125	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R151	1-216-013-00	METAL CHIP	33	5%	1/10W	
R152	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R153	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R154	1-216-055-00	METAL CHIP	1.8K	5%	1/10W	
R155	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R201	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R202	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R203	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R204	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R205	1-216-095-00	METAL CHIP	82K	5%	1/10W	
R206	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R215	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R216	1-216-100-00	METAL GLAZE	130K	5%	1/10W	
R217	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R218	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R219	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R220	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R221	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R222	1-216-041-00	METAL CHIP	470	5%	1/10W	
R223	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R224	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
R225	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R251	1-216-013-00	METAL CHIP	33	5%	1/10W	
R252	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R253	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R254	1-216-055-00	METAL CHIP	1.8K	5%	1/10W	
R255	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R256	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R301	1-216-029-00	METAL CHIP	150	5%	1/10W	
R302	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R303	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R304	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R305	1-216-025-00	METAL CHIP	100	5%	1/10W	
R306	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R307	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R308	1-216-001-00	METAL CHIP	10	5%	1/10W	
R309	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R310	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R311	1-216-103-00	METAL CHIP	180K	5%	1/10W	
R312	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R313	1-216-186-00	METAL GLAZE	330	5%	1/8W	
R314	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	

MAIN **VOL**

Ref.No.	Part No.	Description				Remark
R315	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R316	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R318	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R319	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R320	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R321	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R322	1-216-142-00	METAL GLAZE	4.7	5%	1/8W	
R323	1-216-142-00	METAL GLAZE	4.7	5%	1/8W	
R324	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R325	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R326	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R327	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R328	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R330	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R331	1-216-009-00	METAL CHIP	22	5%	1/10W	
R332	1-249-409-11	CARBON	220	5%	1/4W	
R337	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R338	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R339	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R340	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R341	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R342	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R343	1-249-437-11	CARBON	47K	5%	1/4W	
R344	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R345	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R346	1-249-420-11	CARBON	1.8K	5%	1/4W	
R347	1-247-693-11	CARBON	27	5%	1/4W	
R348	1-247-693-11	CARBON	27	5%	1/4W	
R501	1-216-150-00	METAL GLAZE	10	5%	1/8W	
		< SWITCH >				
S501	1-553-510-00	SWITCH, SLIDE (9K/10K)				
		< TRANSFORMER >				
T1	1-404-955-11	TRANSFORMER, IF				
		< THERMISTOR >				
TH301	1-809-148-11	THERMISTOR, POSITIVE				
		< FRONT END >				
TU1	1-465-919-11	FRONT END				
TU2	1-465-920-11	TUNER UNIT				
		< VARIABLE RESISTOR >				
VR1	1-238-017-11	RES, ADJ, CARBON 22K				
VR2	1-238-016-11	RES, ADJ, CARBON 10K				

Ref.No.	Part No.	Description				Remark
		< VIBRATOR >				
XT1	1-579-278-11	VIBLATOR, CERAMIC				
XT301	1-567-713-11	VIBRATOR, CRYSTAL 4.5MHz				

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VOL BOARD
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*	1-641-768-11	VOL BOARD				
		< CAPACITOR >				
C106	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C107	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C108	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V	
C109	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C110	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C111	1-126-162-11	ELECT	3.3uF	20%	50V	
C112	1-163-139-00	CERAMIC CHIP	820PF	5%	50V	
C206	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C207	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C208	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V	
C209	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C210	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C211	1-126-162-11	ELECT	3.3uF	20%	50V	
C212	1-163-139-00	CERAMIC CHIP	820PF	5%	50V	
C326	1-124-589-11	ELECT	47uF	20%	16V	
C327	1-124-584-00	ELECT	100uF	20%	10V	
		< CONNECTOR >				
* CNP303	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P				
* CNP305	1-506-990-11	PIN, CONNECTOR (PC BOARD) 8P				
		< JUMPER >				
JR901	1-216-295-00	METAL CHIP	0	5%	1/10W	
		< TRANSISTOR >				
Q102	8-729-901-00	TRANSISTOR	DTC124EK			
Q103	8-729-901-00	TRANSISTOR	DTC124EK			
Q202	8-729-901-00	TRANSISTOR	DTC124EK			
Q203	8-729-901-00	TRANSISTOR	DTC124EK			
Q312	8-729-901-00	TRANSISTOR	DTC124EK			
		< RESISTOR >				
R107	1-216-041-00	METAL CHIP	470	5%	1/10W	
R108	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R109	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R110	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R111	1-216-091-00	METAL CHIP	56K	5%	1/10W	

VOL

Ref.No.	Part No.	Description	Remark
R112	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R113	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R114	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R207	1-216-041-00	METAL CHIP 470 5% 1/10W	
R208	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R209	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R210	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R211	1-216-091-00	METAL CHIP 56K 5% 1/10W	
R212	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R213	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R214	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R317	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R333	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R334	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R335	1-216-073-00	METAL CHIP 10K 5% 1/10W	
		< VARIABLE RESISTOR >	
VR101	1-241-436-11	RES, VAR, CERMET CARBON (TRE/BAS/LOUD)	
S302			
VR102	1-241-438-11	RES, VAR, CARBON 100KX4	
S301		(VOL/FAD/PULL BAL/POWER)	

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MISCELLANEOUS

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CNJ1	1-574-339-11	CORD (WITH CONNECTOR)	
F901	1-532-433-11	FUSE, GLASS TUBE 1A	
F902	1-576-075-11	FUSE, GLASS TUBE 8A	
HP901	1-543-829-11	HEAD, CERAMIC (PLAYBACK)	
LCD1	1-809-535-11	DISPLAY PANEL, LIQUID CRYSTAL	
M901	3-367-276-01	MOTOR ASSY	
S902	1-572-712-11	SWITCH, SLIDE	

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ACCESSORIES & PACKING MATERIALS

****

	1-590-584-11	CORD (WITH CONNECTOR & FUSE)
	3-310-655-01	SUPPORT (ND), FITTING
	3-323-206-01	STOPPER (LARGE)
	3-323-209-01	BOLT (4-5), STUD
	3-323-210-01	ADJUSTOR, STUD BOLT
	3-323-219-01	FRAME, FITTING
	3-336-617-01	BAG, PROTECTION
	3-339-403-01	SPRING
	3-349-410-01	BUSHING
	3-366-163-01	COLLAR
*	3-370-278-01	CHUSION (UPPER) (L&R)
*	3-370-279-01	CUSHION (LOWER)
*	3-373-061-01	INDIVIDUAL CARTON
	3-754-129-11	MANUAL, INSTRUCTION (ENGLISH, ARABIC)
	3-754-130-11	MANUAL, INSTRUCTION (ENGLISH, ARABIC) (CONNECTION)
	X-3320-524-1	SCREW ASSY (A)

****

HARDWARE LIST

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#1	7-621-770-67	SCREW +PTT 2.6X6 (S)
#2	7-685-104-19	SCREW +P 2X6 TYPE2 SLIT
#3	7-621-771-06	SCREW +B 2X5
#4	7-682-547-04	SCREW +P 3X6
#6	7-682-550-09	SCREW +B 3X12
#9	7-627-553-38	SCREW, PRECISION +P 2X3
#11	7-627-554-07	PRECISION SCREW +P 2X2.2 TYPE3
#12	7-628-253-90	SCREW +PS 2.6X4
#13	7-624-104-04	STOP RING 2.0, TYPE -E
#14	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3
#15	7-624-102-04	STOP RING 1.5, TYPE -E
#16	7-628-253-10	SCREW +PS 2X5
#17	7-627-554-28	SCREW, PRECISION +P 2X5 TYPE3

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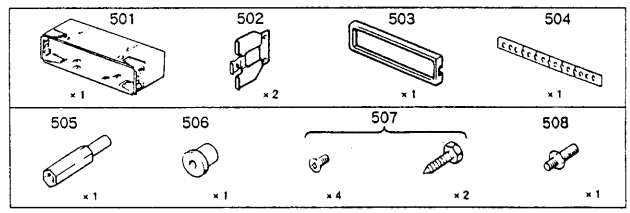
MOUNTING HARDWARE



501	3-323-219-01	FRAME, FITTING
502	3-339-403-02	SPRING
503	3-366-163-01	COLLAR
504	3-310-655-01	SUPPORT (ND), FITTING
505	3-323-210-01	ADJUSTOR, STUD BOLT
506	3-349-410-01	BUSHING
507	X-3320-524-2	SCREW ASSY (A)
508	3-323-209-01	BOLT (4-5),STD

9-956-730-11

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